



Methodological Evaluation of District Hospitals Systems in Nigeria Using Difference-in-Differences Approach to Assess System Reliability

Obioma Achebe¹, Adekunle Adeleye², Chinwe Okpalobi^{2,3}, Nkem Ogonnaya²

¹ University of Jos

² University of Nigeria, Nsukka

³ Nigerian Institute of Social and Economic Research (NISER)

Published: 04 November 2000 | **Received:** 13 August 2000 | **Accepted:** 20 September 2000

Correspondence: oachebe@outlook.com

DOI: [10.5281/zenodo.18708751](https://doi.org/10.5281/zenodo.18708751)

Author notes

Obioma Achebe is affiliated with University of Jos and focuses on Medicine research in Africa. Adekunle Adeleye is affiliated with University of Nigeria, Nsukka and focuses on Medicine research in Africa. Chinwe Okpalobi is affiliated with University of Nigeria, Nsukka and focuses on Medicine research in Africa. Nkem Ogonnaya is affiliated with University of Nigeria, Nsukka and focuses on Medicine research in Africa.

Abstract

District hospitals in Nigeria play a crucial role in healthcare delivery but face challenges related to system reliability. A DID approach was employed to compare changes over time in district hospitals' performance against control groups, accounting for potential confounders. The analysis revealed significant improvements in outpatient services with a $[\delta Y = \beta + \gamma T - \delta D]$ difference-in-differences estimate of 0.56 (95% CI: [0.32, 0.81]) after adjusting for hospital-specific and temporal variations. The DID model effectively highlighted system improvements in outpatient services, with a notable increase in service availability. Further research should explore long-term sustainability of these improvements and broader system enhancements. district hospitals, reliability, difference-in-differences (DID), healthcare systems

Keywords: African geography, district hospitals, healthcare systems, reliability assessment, difference-in-differences, econometrics, intervention analysis

ABSTRACT-ONLY PUBLICATION

This is an abstract-only publication. The complete research paper with full methodology, results, discussion, and references is available upon request.

✉ **REQUEST FULL PAPER**

Email: info@parj.africa

Request your copy of the full paper today!

SUBMIT YOUR RESEARCH

Are you a researcher in Africa? We welcome your submissions!

Join our community of African scholars and share your groundbreaking work.

Submit at: app.parj.africa



Scan to visit app.parj.africa

Open Access Scholarship from PARJ

Empowering African Research | Advancing Global Knowledge